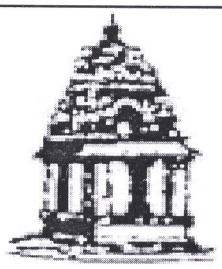

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

BYATARAYANAPURA SUB DIVISOIN

Name of the Work : **Improvements o Genaral/public toilet and sewage maintenance in ward No. 05, Jakkur**

Estimated Cost : **5.00 Lakhs**

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Improvements to Genaral/Public toilet and sewage maintenance in ward No. 05, jakkur

								Est.Cost.Rs.	**500000**
Sl No	**Description of Item**	**Unit**	**No**	**L**	**B**	**D**	**Qty**	**Rate**	**Amount**
1	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / item no 2.3 page no 6								
	Toilet	Cum	4	5	0.9	1.6	28.8		
	Anganvadi Toilet	Cum	2	3.5	0.9	1.6	10.08		
		Cum	2	2.5	0.9	1.6	7.2		
	Basic rate							299.00	
	Area weightage 8%							23.92	
	Total						**46.08**	**322.92**	**14880.15**
2	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8(M7.5)with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregtes @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1, 4.2 Pg No.13 Item No 4.3								
	Toilet	Cum	4	5	0.9	0.15	2.7		
	Anganvadi Toilet	Cum	2	3.5	0.9	0.15	0.945		
		Cum	2	2.5	0.9	0.15	0.675		
	Basic rate							5102.00	
	Area weightage 8%							408.16	
	Total						**4.32**	**5510.16**	**23803.89**
3	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammered dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 Pg No.25 Item No 5.6								
	Toilet	Cum	4	5	0.75	0.7	10.5		
	Anganvadi Toilet	Cum	2	3.5	0.75	0.7	3.675		
		Cum	2	2.5	0.75	0.7	2.625		
	Basic rate							4596.00	
	Area weightage 8%							367.68	
	Total						**16.80**	**4963.68**	**83389.82**
4	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at 2m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 Pg No.25 Item No 5.9								
	Toilet	Cum	4	5	0.6	0.6	7.2		
	Anganvadi Toilet	Cum	2	3.3	0.6	0.6	2.376		
		Cum	2	2.1	0.6	0.6	1.512		
	Basic rate							5483.00	
	Area weightage 8%							438.64	
	Total						**11.09**	**5921.64**	**65659.14**
5	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. Specification. No. KBS 2.9, Pg No.7, Item No.2.10								
	Filling Available of Excavated Earth								

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Earth Work Excavation	Cum					46.08		
	Basic rate							201.00	
	Area weightage 8%							16.08	
	Total						**46.08**	**217.08**	**10003.05**
6	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness , including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2, Pg No 16, Item								
	Plinth Beam								
	Toilet	Sqm	8	4.6		0.4	14.72		
	Anganvadi Toilet	Sqm	4	3.6		0.4	5.76		
		Sqm	4	2.6		0.4	4.16		
	Basic rate							358.00	
	Area weightage 8%							28.64	
	Total						**24.64**	**386.64**	**9526.81**
7	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaitons for heights more than 3.50m from ground level. - 0 to 5 mtrs. Specification No. KBS 4.6.2 page no.16 item no 4.29.2								
	Roof Slab								
	Toilet	Sqm	1	5	5		25		
	Anganvadi Toilet	Sqm	1	3.5	2.5		8.75		
	Basic rate							400.00	
	Area weightage 8%							32.00	
	Total						**33.75**	**432**	**14580.00**
8	KSRB 4-6.7 :Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specificaitons.Specification No. KBS 4.6.2, Pg No 17, Item No 4.34								
	Through Lintel								
		Sqm	8	4.4		0.2	7.04		
		Sqm	4	3.4		0.2	2.72		
		Sqm	4	1.9		0.2	1.52		
	Roof Beam For Toilet								
		Sqm	8	4.4		0.3	10.56		
		Sqm	4	3.4		0.3	4.08		
		Sqm	4	1.9		0.3	2.28		
	Basic rate							292.00	
	Area weightage 8%							23.36	
	Total						**28.20**	**315.36**	**8893.15**
9	KSRB 4.2.1 : Providing and laying in position reinforced cement concrete of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregtes @ 0.47cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6, Pg No. 14, Item No. 4.10								
	Plinth Beam								
	Toilet	Cum	4	4.6	0.3	0.4	2.208		
	Anganvadi Toilet	Cum	2	3.6	0.3	0.4	0.864		
		Cum	2	2.6	0.3	0.4	0.624		

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Basic rate							5812.00	
	Area weightage 8%							464.96	
	Total						**3.70**	**6276.96**	**23199.64**
10	KSRB 4.2.8 : Providing and laying in position reinforced cementconcrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum andfine aggregtes @ 0.47cum,with superplastisiser @3lts confirming to IS 9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick,vibrated fo all works in ground Floor level for roof slabs ,staircase, lintels , beams, retaining walls ,return wall, walls (an thick ness) including attached plasters ,columns, pillars,posts,struts.butters,string or lacing courses ,parapets,coping,bed blocks,anchor blocks ,plain window cills,fillets including cost of all materials, labour,HOM of machinery, curing, complete as per specifications. No. KBS 4.1, 4.6, Pg No. 14, Item No. 4.12								
	Through Lintel								
		Cum	4	4.4	0.2	0.2	0.70		
		Cum	2	3.4	0.2	0.2	0.27		
		Cum	2	1.9	0.2	0.2	0.15		
	Roof Beam For Toilet								
		Cum	4	4.4	0.2	0.3	1.06		
		Cum	2	3.4	0.2	0.3	0.41		
		Cum	2	1.9	0.2	0.3	0.23		
	Roof Slab	Cum	1	5	5	0.15	3.75		
		Cum	1	3.5	2.5	0.15	1.313		
	Basic rate							6045.00	
	Area weightage 8%							483.60	
	Total						**7.88**	**6528.60**	**51461.69**
11	KSRB 4.9.2 : Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 Pg No.18 Item No.4.46.2								
	Plinth beam	Cum	Concrete Quantity				3.70		
		kg	Steel assumed 95 Kg/Cum of Concrete				351.12		
		tonne					**0.35**		
	Beam	Cum	Concrete Quantity				1.69		
		kg	Steel assumed 105 Kg/Cum of Concrete				177.7		
		tonne					**0.18**		
	Roof Slab	Cum	Concrete Quantity				3.75		
		kg	Steel assumed 105 Kg/Cum of Concrete				375.0		
		tonne					**0.38**		
	Basic rate							70966.00	
	Area weightage 8%							5677.28	
	Total						**0.90**	**76643.3**	**69268.66**
12	KSRB 5-15 : Providing and constructing non-load bearing wall with solid concrete blocks of size 400X100X200 having a block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 conforming to I.S : 2185 (Part 1) : 2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials, labour charges, scaffolding, curing, hire chargesof machineries etc., complete as per specifications. KBS No.5.4, Pg No 27, Item No 5.28								
	Toilet	Sqm	3	4		3	36.00		
		Sqm	4	1.9		3	22.80		

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Anganvadi Toilet	Sqm	2	2.7		3	16.20		
		Sqm	2	1.5		3	9.00		
	Deduction								
	D3	Sqm	3	0.75		2.1	-4.725		
	Basic rate							811.00	
	Area weightage 8%							64.88	
	Total						**79.28**	**875.88**	**69435.39**
								Total Amount	**444101.39**
								GST Charges (12% of estimated cost)	**53292.17**
								Miscellenious and rounding	**2606.44**
								Grand Total	**500000.00**
								RUPEES FIVE LAKHS ONLY	

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum.
4) The estimate is based on C.S.R of 2018-2019 and approved rates.

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP

ADMINISTRATIVE APPROVAL
Accorded For Rs. 5.00 Lakhs only
Head of A/c. P3294
Div. Ref. No. 122/19-20 Date 16/3/2020
AE 16/03
EE(BTP) 16/03

TECHNICAL SANCTION
Accorded For Rs. 5.00 Lakhs only
Head of A/c. P3294
Div. Ref. No. 90/19-20 Date 16/3/2020
AE 16/03
EE(BTP) 16/03